

## PATENT COOPERATION TREATY

## PCT

REC'D 16 MAR 2006

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>0308 PCT</b>	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. <b>PCT/SE2004/001985</b>	International filing date (day/month/year) <b>23-12-2004</b>	Priority date (day/month/year) <b>30-12-2003</b>
International Patent Classification (IPC) or national classification and IPC <b>See Supplemental Box</b>		
Applicant <b>Kvaerner Pulping AB et al</b>		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 6 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
  - ☒ (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input checked="" type="checkbox"/> | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

Date of submission of the demand <b>06-07-2005</b>	Date of completion of this report <b>06-03-2006</b>
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Form PCT/IPEA/409 (cover sheet) (April 2005)

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**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

**PCT/SE2004/001985**

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.  
Continuation of: **Cover sheet**

**International patent classification (IPC)**

**D21C 7/06 (2006.01)**

**D21C 3/24 (2006.01)**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001985

## Box No. I Basis of the report

1. With regard to the language, this report is based on:

- ☒ the international application in the language in which it was filed  
☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of:  
☐ international search (Rules 12.3(a) and 23.1(b))  
☐ publication of the international application (Rule 12.4(a))  
☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ the international application as originally filed/furnished  
☒ the description:  
pages 1-9 \_\_\_\_\_ as originally filed/furnished  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
☒ the claims:  
pages \_\_\_\_\_ as originally filed/furnished  
pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19  
pages\* 11-12 received by this Authority on 10-01-2006  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
☒ the drawings:  
pages 1-5 \_\_\_\_\_ as originally filed/furnished  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_  
☐ the claims, Nos. \_\_\_\_\_  
☐ the drawings, sheets/figs \_\_\_\_\_  
☐ the sequence listing (*specify*): \_\_\_\_\_  
☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_  
☐ the claims, Nos. \_\_\_\_\_  
☐ the drawings, sheets/figs \_\_\_\_\_  
☐ the sequence listing (*specify*): \_\_\_\_\_  
☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001985

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-5</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1-5</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1-5</u>	YES
	Claims	_____	NO

## 2. Citations and explanations (Rule 70.7)

The claimed invention relates to a method for the feed of a mixture of cellulose chips and fluid from a low-pressure system to a high-pressure system. Pressurised liquor normally withdrawn from the digester or the impregnating vessel and passed to the recovery system, i.e. black liquor, is used for transporting the chips out of the high-pressure feeder. The object of the invention is to offer a method that reduces the amount of electric energy required for pumping the suspension of chips to the high-pressure system.

Amended claims have been filed with the letter of 10 January 2006. Claim 1 is now limited to the passing of the previously pressurised liquor withdrawn from the high-pressure feeder directly to the recovery system.

Of the documents cited in the International Search Report the most relevant are:

D1. WO 03062525  
D2. US 3802956

The claimed invention defined in amended claim 1 differs from these documents in that the previously pressurised liquor withdrawn from the high-pressure feeder is passed directly to the recovery system.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method. Therefore, the claimed invention is not obvious to a person

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of: BOX V

skilled in the art.

Accordingly, the invention defined in claims 1-5 is novel and is considered to involve an inventive step. The invention is industrially applicable.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

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**Box No. VII Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:

The embodiment in figure 4 goes beyond the scope of the invention in amended claim 1.